

1511-A

Reg. No.....

Name.....

**FIRST M.B.B.S. DEGREE EXAMINATION, APRIL 2005**  
**PHYSIOLOGY—Paper I**

(29)

Time : 2 Hours and 45 Minutes

Maximum Marks

*Answer Section A-II and Section B in separate answer-books.*

*Draw diagrams wherever necessary.*



**Section A-II**

- I. Write the fate of sodium in the tubular fluid, as it passes through the different parts of renal tubule. Explain the mechanism of action of two diuretics interfering with sodium reabsorption.
- II. (a) How is fat digested and absorbed in the gastro intestinal tract ?  
(b) How is CO<sub>2</sub> transported through blood ?

(8 + 2 = 10 marks)

(5 marks)

(5 marks)

**Section B**

- III. Explain the following :—
- (a) Alveals are always kept dry normally. Give the physiological basis.  
(b) The immediate compensatory mechanisms in the body following massive haemorrhage.  
(c) The food as it is swallowed, does not enter the respiratory passage ?  
(d) When the skin is stroked, there develop certain reactions. Name the reactions and causes.  
(e) Normally as the urinary bladder is filled with urine, there is not overflow incontinence.
- IV. Write short notes on :
- (a) Functions of gall bladder.  
(b) Conducting system of heart.  
(c) Neutrophil.  
(d) Peristalsis.  
(e) Dead space.

(3 × 5 = 15 marks)

(2 × 5 = 10 marks)